

FIG. 1

● BLOCK DIAGRAM OF ATM TO FR / FR TO ATM (FORWARD, BACKWARD)

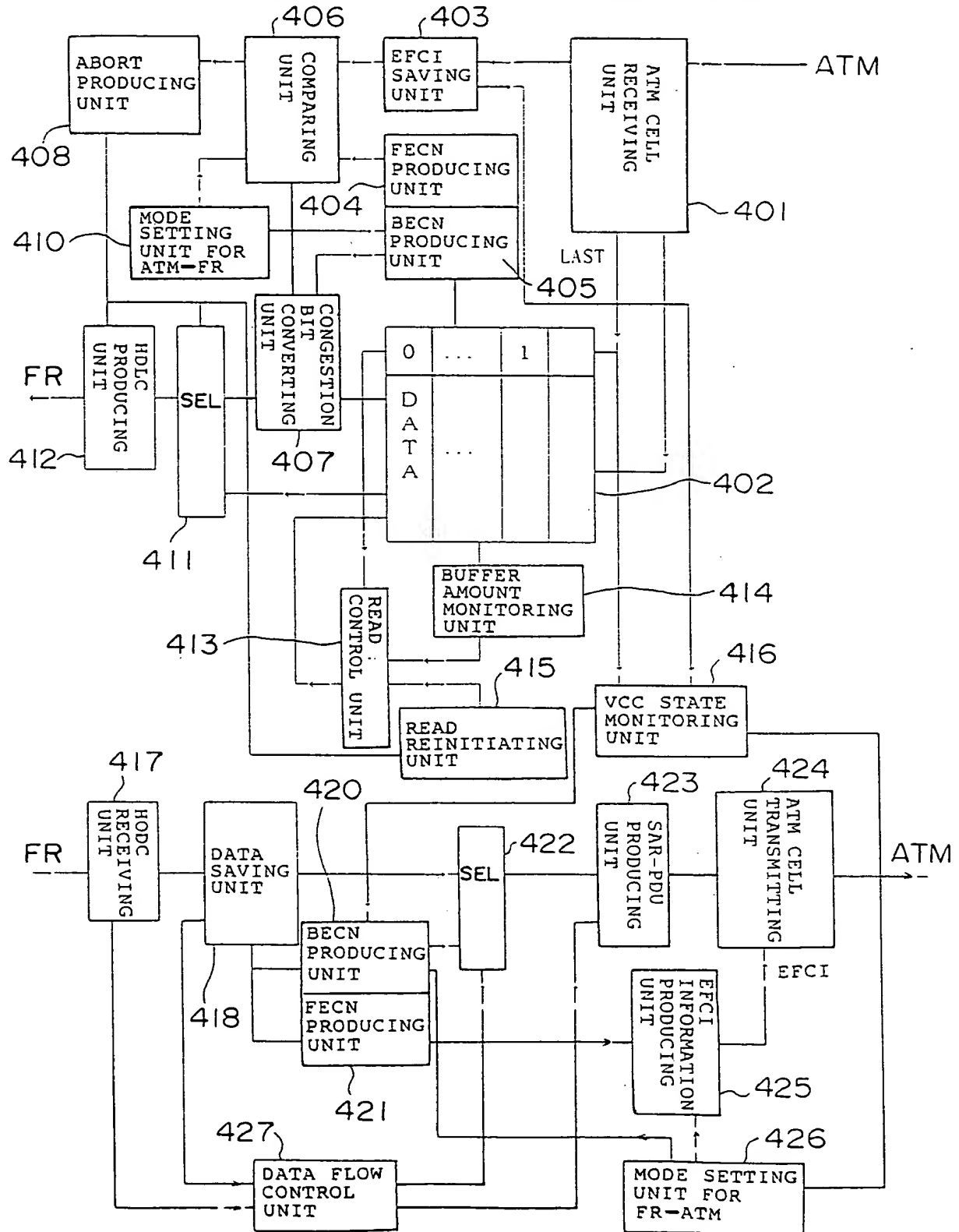
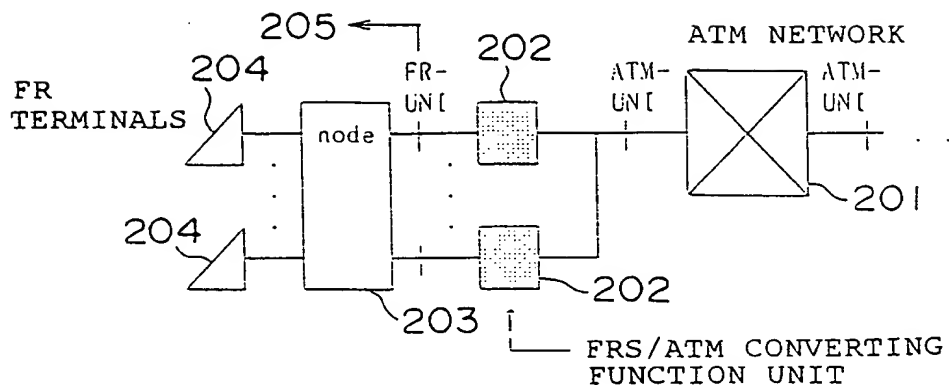


FIG. 2



Q. 922-DLL

FIG. 3

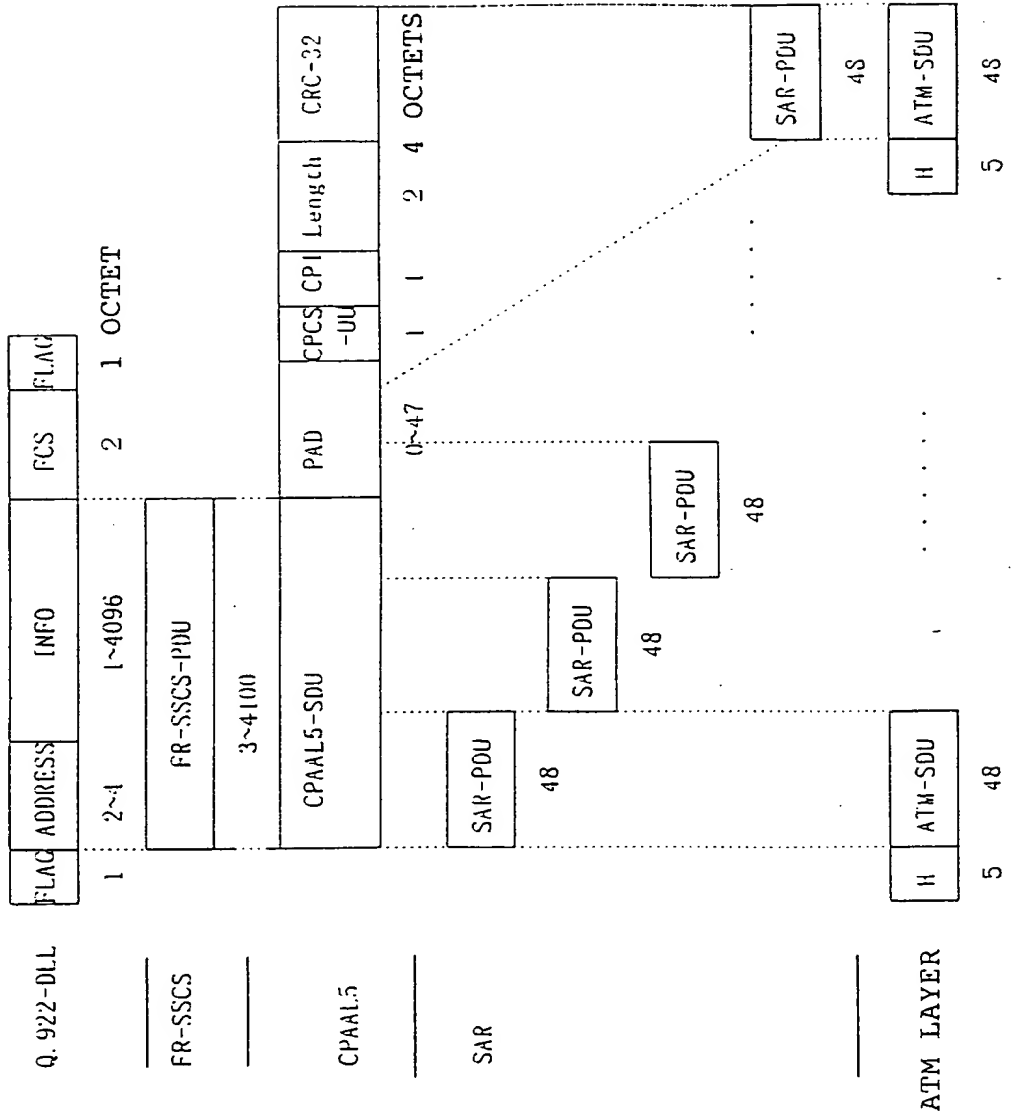


FIG. 4

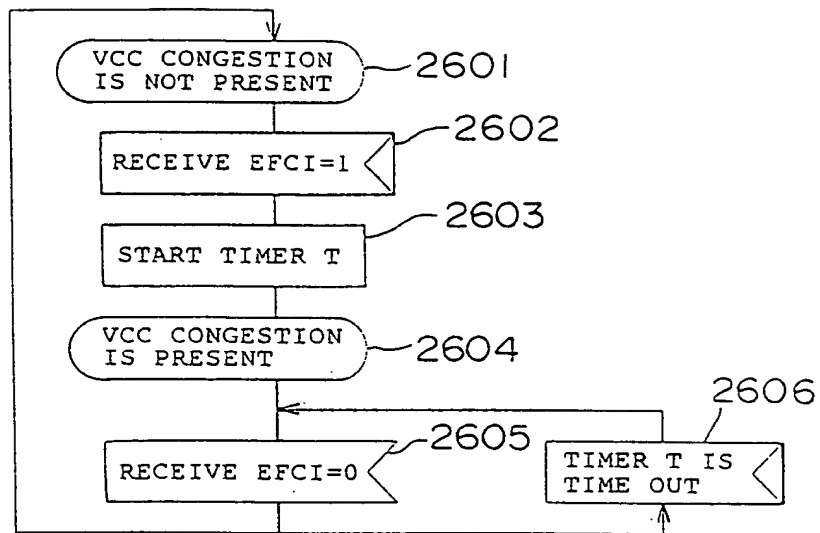


FIG. 5

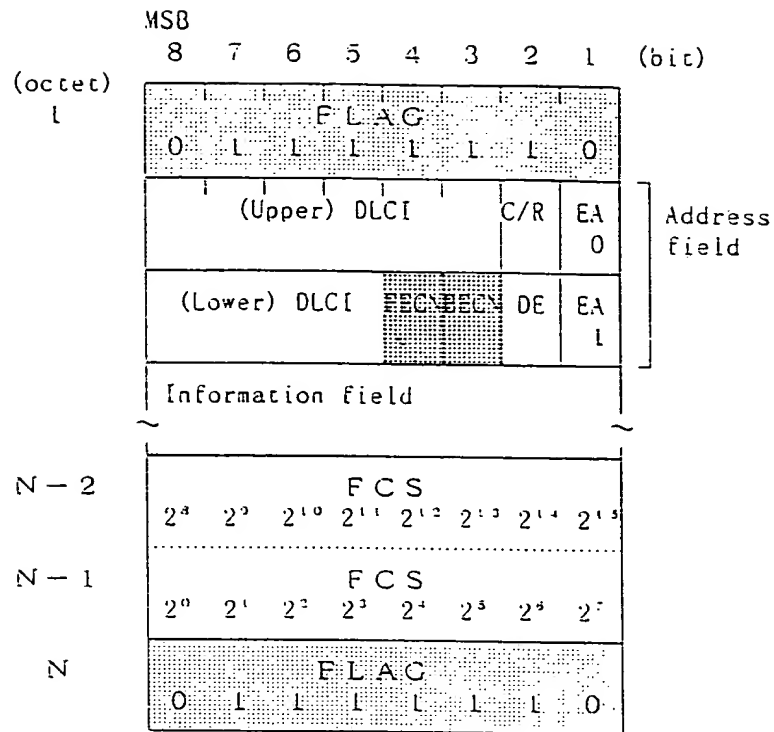


FIG. 6

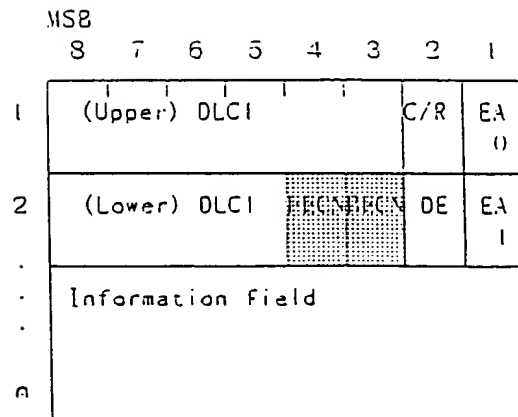


FIG. 7

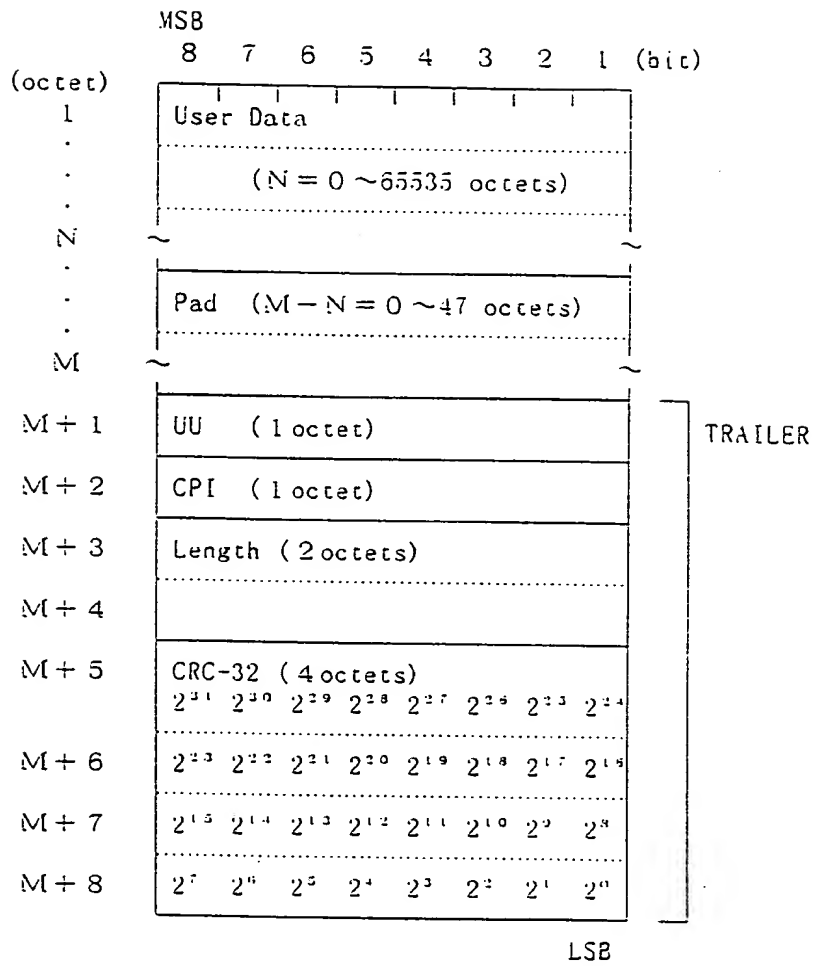


FIG. 8

FIELD	OCTET	CONTENT
USER DATA	1-655350	<p>USER DATA FIELD:</p> <p>IN THE CASE OF LENGTH FIELD VALUE ≥ 1, CPAAL5-5DU IS TRANSMITTED.</p> <p>IN THE CASE OF LENGTH FIELD VALUE = 0, FORWARD ABORT FORMATION FOR CAAL5-PDU IS APPLIED.</p>
PAD	0-47	PAD FIELD:
UU	1	USER-USER FIELD:
CPI	1	COMMON PART INDICATOR FIELD:
LENGTH	2	LENGTH FIELD:
CRC-32	1	CRC-32 FIELD:

FIG. 9

1	CFC(UNI)/VPI(NNI)	VPI	
2	VPI	VCI	
3	VCI		
4	VCI	PTI	CLP
5	HEC		
...			
53	Pay load		

FIG. 11

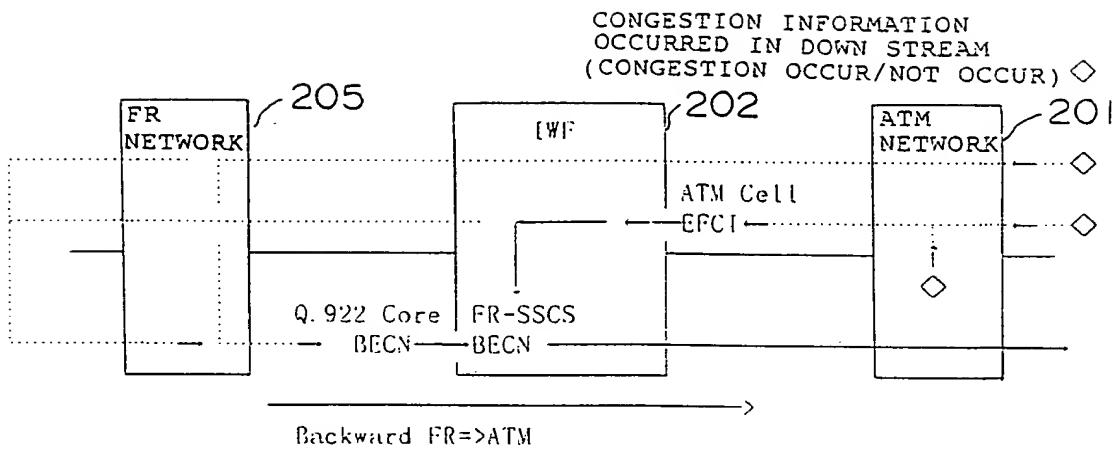


FIG. 12

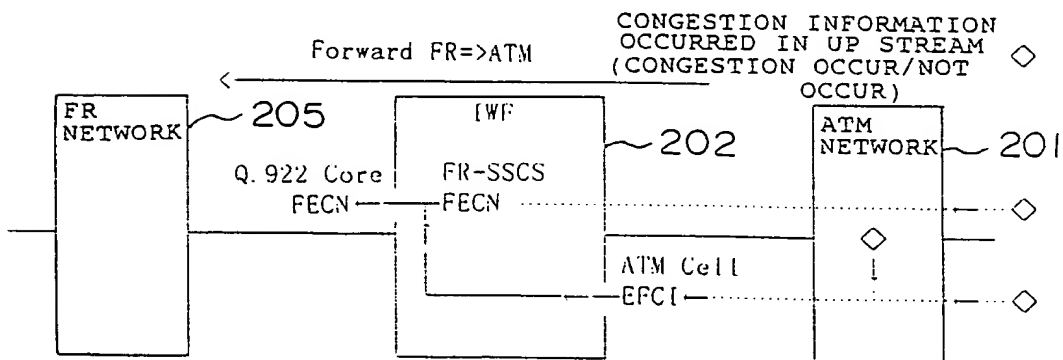


FIG. 13

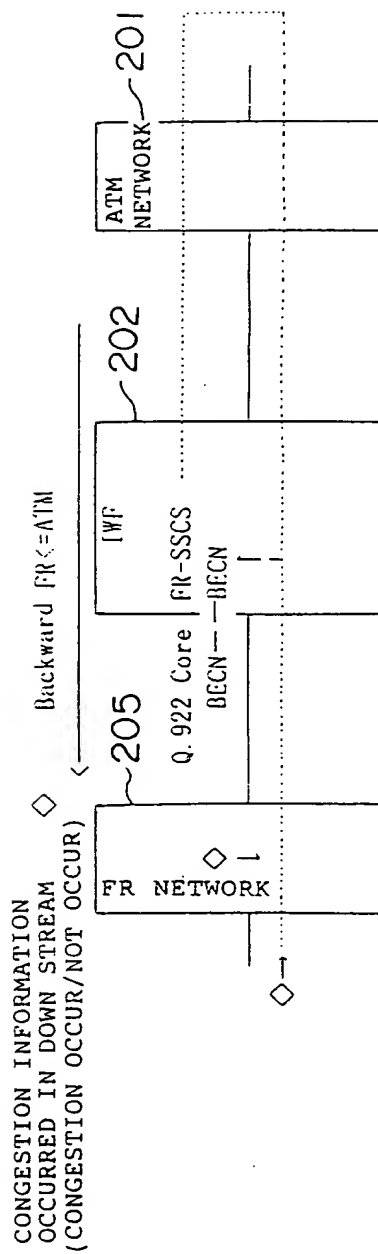


FIG. 14

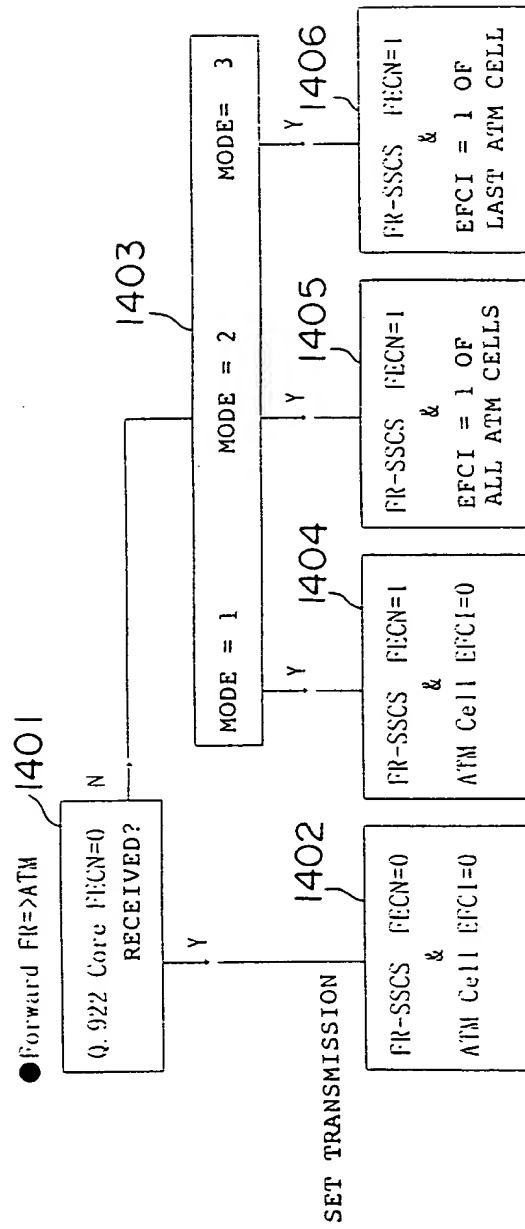


FIG. 15

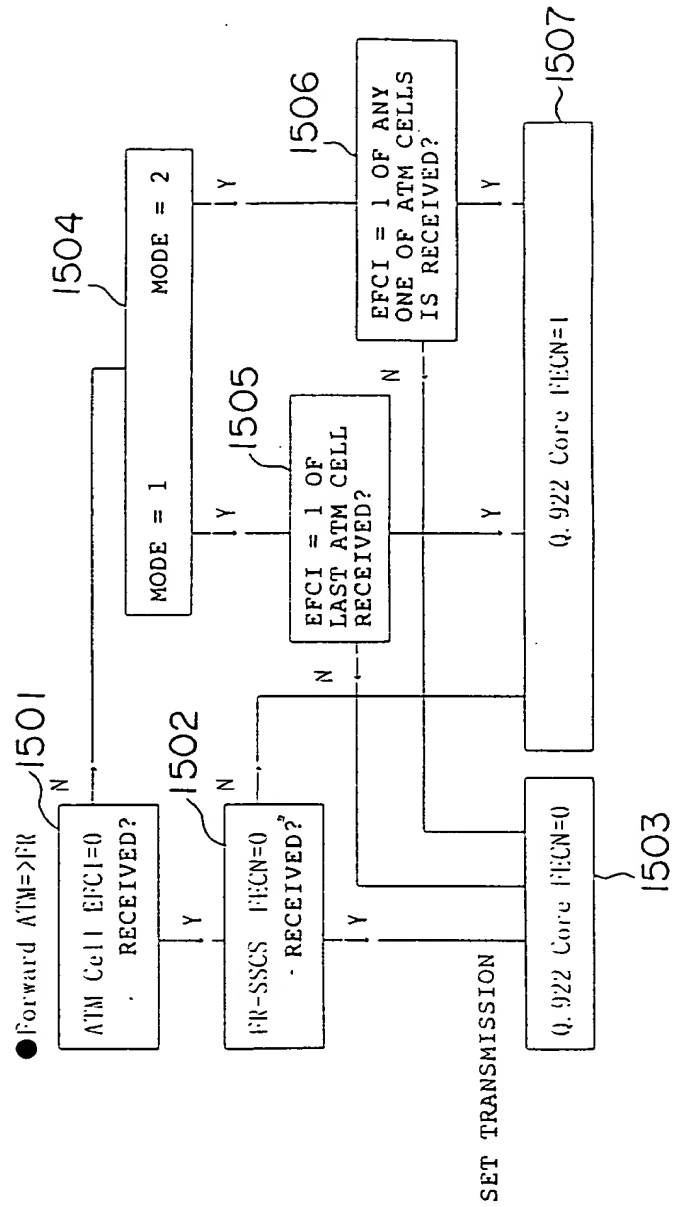


FIG. 16

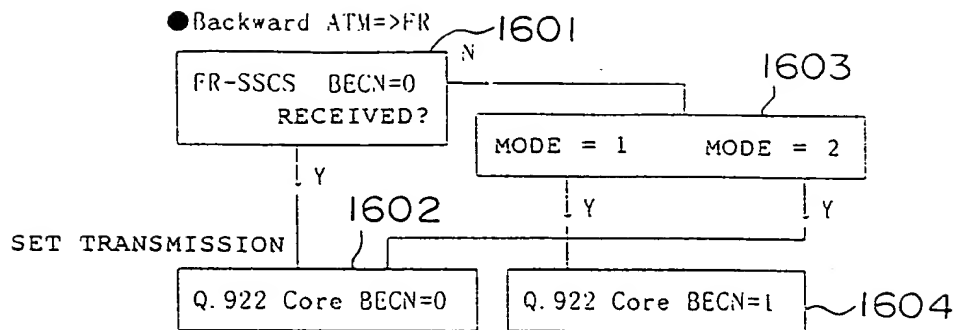


FIG. 17

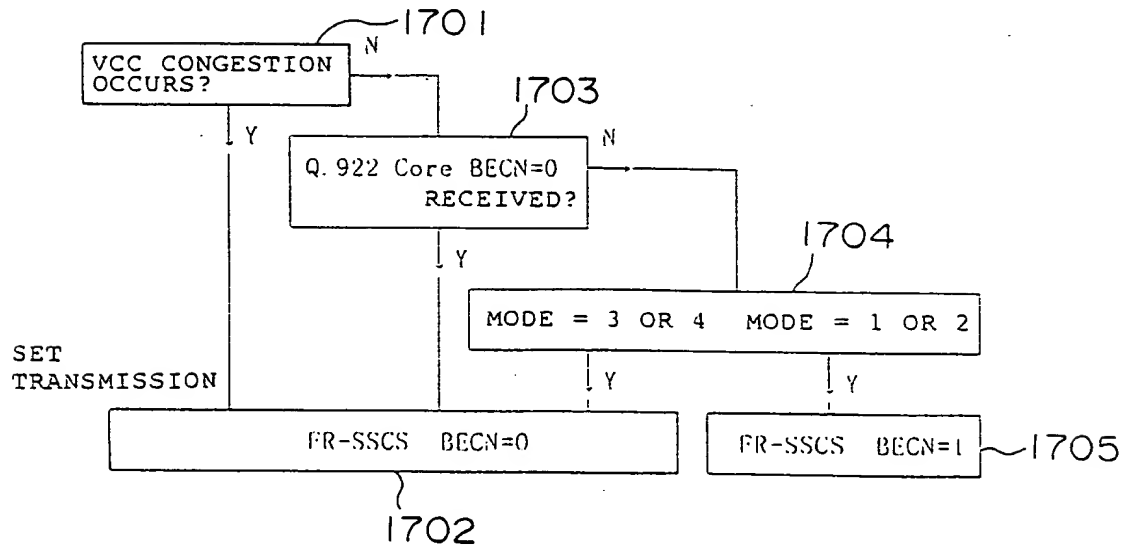


FIG. 18

	CONTENTS	REMARKS
MODE 1	<p>FECN of Q. 922-DLL frame is not mapped to EFCI of the ATM cell belonging to that frame. That is, EFCI field of ATM cell is constantly set to "no congestion occurs."</p> <p>However, if no congestion occurs in a forward direction, FECN field of FRSSCS-PDU is constantly set to "no congestion occurs."</p> <p>Or otherwise, FECN field of FRSSCS-PDU is set to "congestion occurs." That is, EFCI field of Q. 922-DLL frame is copied to FECN field of FR-SSCS-PDU without any modification.</p>	
MODE 2 (NEW)	<p>FECN of Q. 922-DLL frame is mapped to EFCI of all ATM cells belonging to that frame.</p>	
MODE 3 (NEW)	<p>FECN of Q. 922-DLL frame is not mapped to EFCI of the last ATM cell belonging to that frame.</p>	

FIG. 19

	RECEPTION	TRANSMISSION		REMARKS
	Q.922 FECN	FR-SSCS FECN	ATM EFCI	
MODE 1	0 1	0 1	0 0	
MODE 2 (NEW)	0 1	0 1	0 1 ×1	×1: SET TO ALL ATM CELLS
MODE 3 (NEW)	0 1	0 1	0 1 ×2	×2: SET TO FINAL ATM CELL

FIG. 19

FIG. 20

	CONTENT	REMARKS
MODE 1	If EFCI field is set to "congestion occurs" at the last ATM cell of the segment frame to be received, or if FECN field of FR-SSCS-PDU to be received is set to "congestion occurs," FECN of Q. 922-DLL frame is set to "congestion occurs."	
MODE 2	If EFCI field is set to "congestion occurs" at any of the ATM cell of segment frame to be received, or if FECN field of FR-SSCS-PDU to be received is set to "congestion occurs," FECN of Q. 922-DLL frame is set to "congestion occurs."	

FIG. 20

FIG. 21

				REMARKS
	ATM EFCI	FR-SSCS FECN	Q.922 FECN	
MODE 1	0	0	0	*1: If
	0	1	1	EFCi has
	1 *1	0	1	been set
	1 *1	1	1	at last
				final ATM
				cell
MODE 2	0	0	0	*2: If
(NEW)	0	1	1	EFCi has
	1 *2	0	1	been set
	1 *2	1	1	at any of
				the ATM
				cell

FIG. 22

	CONTENT	REMARKS
MODE 1	BECON FIELD OF FIR-SSCS-PDU IS DUPLICATED TO BECN FIELD OF Q.922 CORE FRAME WITHOUT ANY CHANGE.	
MODE 2 (NEW)	BECN OF Q.922-DLL FRAME IS ALWAYS SET TO "0" .	

FIG. 23

	RECEPTION	TRANSMISSION	REMARKS
	FR-SSCS BECN	Q.922 BECN	
MODE 1	1 0	1 0	
MODE 2 (NEW)	1 0	0 0	

FIG. 24

	CONTENT	REMARKS
MODE 1	<ol style="list-style-type: none"> 1. If BECN of Q. 922-DLL frame to be delivered from FR to ATM directions has been set, or 2. if the value of EFCI in the last segment frame ATM cell to be received from ATM to FR directions used in the bi-directional connection is used for a VCC congestion state transition and the VCC congestion state is of "congestion occurs," FR-SSCS BECN = 1 is set. 	
MODE 2 (NEW)	<ol style="list-style-type: none"> 1. If BECN of Q. 922-DLL frame to be delivered from FR to ATM directions has been set, or 2. if the value of EFCI in any of the segment frame ATM cell to be received from ATM to FR directions used in the bi-directional connection is used for a VCC congestion state transition and the VCC congestion state is of "congestion occurs," FR-SSCS BECN = 1 is set. 	
MODE 3 (NEW)	<ol style="list-style-type: none"> 1. BECN of Q. 922-DLL frame to be received is ignored. Therefore, 2. Only if the condition is similar to that of MODE 1 (2), FR-SSCS BECN = 1 is set. 	
MODE 4 (NEW)	<ol style="list-style-type: none"> 1. BECN of Q. 922-DLL frame to be received is ignored. Therefore, 2. Only if the condition is similar to that of MODE 2 (2), FR-SSCS BECN = 1 is set. 	

FIG. 25

	VCC CONGESTION STATE	RECEPTION	TRANSMISSIO N	
		Q.922 BECN	FR-SSCS BECN	
MODE 1	NO CONGESTION OCCURS	0 1	0 1	※1: WHEN EFCI IS SET TO FINAL ATM CELL
	CONGESTION OCCURS	0 1	1 1	
MODE 2 (NEW)	NO CONGESTION OCCURS	0 1	0 1	※2: WHEN EFCI IS SET TO ANY ONE OF ATM CELLS
	CONGESTION OCCURS	0 1	1 1	
MODE 3 (NEW)	NO CONGESTION OCCURS	0 1	0 0	※1: WHEN EFCI IS SET TO FINAL ATM CELL
	CONGESTION OCCURS	0 1	1 1	
MODE 4 (NEW)	NO CONGESTION OCCURS	0 1	0 0	※2: WHEN EFCI IS SET TO ANY ONE OF ATM CELLS
	CONGESTION OCCURS	0 1	1 1	